micriadomi application 140

#### PCT/SG03/00222

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: H01L 21/4763, 21/285, 23/36, 23/367, 23/373, 31/024, 31/052, 31/18, H01S 5/024

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) file dwpi: limit /ic h011-021 or h011-023 or h011-031 or h011-033 or h0 1s-005, gan or (gallium (w) nitride), sapphire or gaas or inp or si, epitax+ or epilayer?, copper or cu, adhesion (w) layer, seed (w) layer, (heat or thermal+) (s) (sink+ or spread+ or conduct+ or dissipat+ or remov+), laser or led? or (light (w) emitting), ohmic (w) contact, active (w) region, thick, electroplat+ or electrodeposit+, lift (w) off, (host or temporary or remov+) (2d) substrate

C. Category*	Citation of document, with indication, v	Relevant to claim No.				
A	US 6562648 B1 (WONG et al.) 13 Column 4, lines 3–17; figures 1 <i>a</i> –1					
A	US 2003/0064535 A1 (KUB et al.) 3 April 2003 A Page 2, paragraphs [0032]–[0035]; figures 1(a)–1(d)					
Α	US 6448102 B1 (KNEISSL et al.) 10 September 2002 A Column 2, lines 5–38; figures 11a–11f					
* Specia "A" docum which relevar "E" earlier after th	application or patent but published on or ne international filing date tent which may throw doubts on priority	"T" "X"	later document published after the international filing of and not in conflict with the application but cited to undor theory underlying the invention document of particular relevance; the claimed invention considered novel or cannot be considered to involve a when the document is taken alone document of particular relevance; the claimed invention	date or priority date derstand the principle cannot be n inventive step		
publicareason "O" documexhibita" "P" document	s) or which is cited to establish the ation date of another citation or other special (as specified) tent referring to an oral disclosure, use, tion or other means tent published prior to the international filing at later than the priority date claimed	"&"	considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious a person skilled in the art document member of the same patent family			
Date of the act	rual completion of the international search		Date of mailing of the international search report	0 9 PEC : 2003		
Name and mailing address of the ISA/AU			Authorized officer			
PO BOX 200, E-mail address	N PATENT OFFICE WODEN ACT 2606, AUSTRALIA s: pct@ipaustralia.gov.au		RAJEEV DESHMUKH			

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## INTERNATIONAL SEARCH REPORT

International application No. PCT/SG03/00222

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.					
A	US 6210479 B1 (BOJARCZUK et al.) 3 April 2001 Column 3, line 18-column 4, line52; figures 1-6						
A	EP 1326290 A2 (XEROX CORPORATION) 9 July 2003 Abstract; figure 2						
E, A	US 6627921 B2 (WONG et al.) 30 September 2003  E, A Column 4, lines 10–23; figures 1a–1g						
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# INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. PCT/SG03/00222

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report			Pate	nt Family Member		
US	6562648	JР	2002076523	US	2003122141		
US	2003064535						
US	6448102	JР	2000196197	US	6365429		
US	6210479	JР	10270712	ĴР	2000252224	JР	2002198539
		US	5946551	US	5981970	US	6344660
	•	US	6344662			,	
EP	1326290	CA	2414325	JР	2003234542	US	6455340
US	6627921	ЛР	2002076523	US	6562648	US	2003122141
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